

NNN	NNN	EEEEEEEEEEEEEEEE	TTTTTTTTTTTTTTTT	AAAAAAAAAA	CCCCCCCCCCCC	PPPPPPPPPPPP
NNN	NNN	EEEEEEEEEEEEEEEE	TTTTTTTTTTTTTTTT	AAAAAAAAAA	CCCCCCCCCCCC	PPPPPPPPPPPP
NNN	NNN	EEEEEEEEEEEEEEEE	TTTTTTTTTTTTTTTT	AAAAAAAAAA	CCCCCCCCCCCC	PPPPPPPPPPPP
NNN	NNN	EEE	TTT	AAA	CCC	PPP
NNN	NNN	EEE	TTT	AAA	CCC	PPP
NNN	NNN	EEE	TTT	AAA	CCC	PPP
NNNNNN	NNN	EEE	TTT	AAA	CCC	PPP
NNNNNN	NNN	EEE	TTT	AAA	CCC	PPP
NNNNNN	NNN	EEE	TTT	AAA	CCC	PPP
NNN	NNN	EEEEEEEEEEEE	TTT	AAA	CCC	PPP
NNN	NNN	EEEEEEEEEEEE	TTT	AAA	CCC	PPP
NNN	NNN	EEEEEEEEEEEE	TTT	AAA	CCC	PPP
NNN	NNNNNN	EEE	TTT	AAAAAAAAAAAAAAAA	CCC	PPP
NNN	NNNNNN	EEE	TTT	AAAAAAAAAAAAAAAA	CCC	PPP
NNN	NNNNNN	EEE	TTT	AAAAAAAAAAAAAAAA	CCC	PPP
NNN	NNN	EEE	TTT	AAA	CCC	PPP
NNN	NNN	EEE	TTT	AAA	CCC	PPP
NNN	NNN	EEE	TTT	AAA	CCC	PPP
NNN	NNN	EEE	TTT	AAA	CCC	PPP
NNN	NNN	EEEEEEEEEEEEEEEE	TTT	AAA	CCCCCCCCCCCC	PPP
NNN	NNN	EEEEEEEEEEEEEEEE	TTT	AAA	CCCCCCCCCCCC	PPP
NNN	NNN	EEEEEEEEEEEEEEEE	TTT	AAA	CCCCCCCCCCCC	PPP

-S  
 Ps  
 --  
 NE  
  
 NE  
  
 NE  
  
 NE  
  
 \$R

NE  
VC[illegible]

```

LL          IIIIII      SSSSSSSS
LL          IIIIII      SSSSSSSS
LL          II         SS
LL          II         SS
LL          II         SS
LL          II         SS
LL          II         SSSSSS
LL          II         SSSSSS
LL          II         SS
LL          II         SS
LL          II         SS
LL          II         SS
LLLLLLLLLLL IIIIIIII   SSSSSSSS
LLLLLLLLLLL IIIIIIII   SSSSSSSS

```

```

1 0001 0 MODULE network_server (IDENT = 'V04-000',
2 0002 0     MAIN = network_server,
3 0003 0     ADDRESSING_MODE(EXTERNAL=GENERAL)) =
4 0004 1 BEGIN
5 0005 1
6 0006 1
7 0007 1
8 0008 1
9 0009 1
10 0010 1
11 0011 1
12 0012 1
13 0013 1
14 0014 1
15 0015 1
16 0016 1
17 0017 1
18 0018 1
19 0019 1
20 0020 1
21 0021 1
22 0022 1
23 0023 1
24 0024 1
25 0025 1
26 0026 1
27 0027 1
28 0028 1
29 0029 1
30 0030 1
31 0031 1
32 0032 1
33 0033 1
34 0034 1
35 0035 1
36 0036 1
37 0037 1
38 0038 1
39 0039 1
40 0040 1
41 0041 1
42 0042 1
43 0043 1
44 0044 1
45 0045 1
46 0046 1
47 0047 1
48 0048 1
49 0049 1
50 0050 1
51 0051 1
52 0052 1
53 0053 1
54 0054 1
55 0055 1
56 0056 1
57 0057 1

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++
FACILITY: DECnet

ABSTRACT:

    This program is used to enable a process to wait for an incoming
    DECnet logical link connection, and then accept the logical link
    request by invoking the correct procedure using CLI CHAIN. This
    is used to allow a single process to handle many logical link
    requests, and reduce the overhead involved in process creation.

ENVIRONMENT:

    VAX/VMS operating system. unprivileged user mode,

AUTHOR: Tim Halvorsen, June 1982

Modified by:

    V03-004 PRB0337      Paul Beck      27-Jun-1984  16:33
    Change default timeout from 1 minute to 5 minutes.

    V003   TMH0003      Tim Halvorsen  07-Apr-1983
    Add support for direct execution of an object image,
    if the object filespec contains an explicit ".EXE".

    V002   TMH0002      Tim Halvorsen  24-Feb-1983
    Add support for EPIDs by using the IPID returned

```



```

: 58      0058 1 | by DECLSERV to index the SPI database, rather than
: 59      0059 1 | using the EPID returned by GETJPI.
: 60      0060 1 |
: 61      0061 1 | V001 TMH0001 Tim Halvorsen 7-Feb-1983
: 62      0062 1 | Add code to display where each connect request comes
: 63      0063 1 | from (by displaying the NCB), so that .LOG files can
: 64      0064 1 | be more easily read.
: 65      0065 1 | --
: 66      0066 1 |
: 67      0067 1 |
: 68      0068 1 | Include files
: 69      0069 1 |
: 70      0070 1 |
: 71      0071 1 | LIBRARY 'SYSS$LIBRARY:STARLET'; ! VAX/VMS common definitions
: 72      0072 1 |
: 73      0073 1 | LIBRARY 'SHRLIB$:NET'; ! NETACP control QIO definitions

```

```

75      0074 1  |
76      0075 1  | Table of contents
77      0076 1  |
78      0077 1  |
79      0078 1  | FORWARD ROUTINE
80      0079 1  |     network_server,
81      0080 1  |     timeout_ast: NOVALUE,
82      0081 1  |     issue_mailbox_read: NOVALUE,
83      0082 1  |     net_interrupt: NOVALUE,
84      0083 1  |     fao_buffer;
85      0084 1  |
86      0085 1  |
87      0086 1  | Literals
88      0087 1  |
89      0088 1  |
90      0089 1  | LITERAL
91      0090 1  |     true = 1;
92      0091 1  |     false = 0;
93      0092 1  |
94      0093 1  |
95      0094 1  | Macros
96      0095 1  |
97      0096 1  |
98      0097 1  | MACRO
99      M 0098 1  |     fao(string) =
100     M 0099 1  |         fao_buffer(%ASCID string
101     0100 1  |         %IF %LENGTH GTR 1 %THEN ,%REMAINING %FI)% ,
102     0101 1  |
103     M 0102 1  |     write_line(string) =
104     M 0103 1  |         LIB$PUT_OUTPUT(fao(string
105     0104 1  |         %IF %LENGTH GTR 1 %THEN ,%REMAINING %FI))% ,
106     0105 1  |
107     M 0106 1  |     signal_if_error(command) =
108     M 0107 1  |         BEGIN
109     M 0108 1  |             LOCAL
110     M 0109 1  |                 status;
111     M 0110 1  |
112     M 0111 1  |                 status = command;
113     M 0112 1  |                 IF NOT .status
114     M 0113 1  |                 THEN
115     M 0114 1  |                     BEGIN
116     M 0115 1  |                         SIGNAL(.status);
117     M 0116 1  |                         RETURN .status OR sts$m_inhib_msg;
118     M 0117 1  |                     END;
119     0118 1  |                 END%;
120     0119 1  |
121     0120 1  |
122     0121 1  | Own storage
123     0122 1  |
124     0123 1  |
125     0124 1  | LITERAL
126     0125 1  |     mbx_maxmsg = 128;
127     0126 1  |
128     0127 1  | OWN
129     0128 1  |     net_channel: WORD,
130     0129 1  |     mbx_channel: WORD,
131     0130 1  |     mbx_message: VECTOR [mbx_maxmsg,BYTE],

```

```

| Main routine
| Timeout AST
| Issue network mailbox read
| Mailbox attention AST
| Invoke FAO and return descriptor

```

! Maximum size of mailbox message

```

| Channel to ACP
| Channel to assoc. mailbox
| Mailbox input buffer

```

```

: 132      0131 1      mbx_iosb:  $BLOCK [8];
: 133      0132 1
: 134      0133 1
: 135      0134 1      External routines
: 136      0135 1
: 137      0136 1
: 138      0137 1      EXTERNAL ROUTINE
: 139      0138 1      lib$asn_wth_mbx,
: 140      0139 1      lib$set_logical,
: 141      0140 1      lib$run_program,
: 142      0141 1      lib$do_command,
: 143      0142 1      lib$put_output,
: 144      0143 1      str$concat;

! I/O status block for mailbox

! Assign with assoc. mailbox
! Define supervisor mode logical name
! Chain to another program
! Chain a CLI command string
! Write to SYS$OUTPUT
! Concatenate strings together

```



```
146 0144 1 ROUTINE network_server =
147 0145 1
148 0146 1 ---
149 0147 1
150 0148 1     This routine is the entry point to the program
151 0149 1
152 0150 1 Inputs:
153 0151 1
154 0152 1     None
155 0153 1
156 0154 1 Outputs:
157 0155 1
158 0156 1     Routine value = status code
159 0157 1 ---
160 0158 1
161 0159 2 BEGIN
162 0160 2
163 0161 2 LOCAL
164 0162 2     nfb:          $BBLOCK [nfb$length+20*4],      ! Network function block
165 0163 2                                     ! (room for 20 field requests)
166 0164 2     nfb_desc:    VECTOR [2]                      ! Descriptor of NFB
167 0165 2                                     INITIAL(nfb$length + 3*4),
168 0166 2     iosb:        $BBLOCK [8],                      ! I/O status block
169 0167 2     time_buf:   VECTOR [128,BYTE],                ! Buffer for timeout specifier
170 0168 2     time_desc:   VECTOR [2]                      ! Descriptor of timeout specifier
171 0169 2                                     INITIAL(128),
172 0170 2     delta_time: VECTOR [2]                      ! Binary time quadword
173 0171 2     buffer:      VECTOR [64],                      ! Return buffer
174 0172 2     buffer_desc: VECTOR [2]                      ! Descriptor of above buffer
175 0173 2                                     INITIAL(256),
176 0174 2     keys:        $BBLOCK [4+4+nfb$ctx_size], ! Buffer for search key & context
177 0175 2     key_desc:    VECTOR [2]                      ! Descriptor of above buffer
178 0176 2                                     INITIAL(4+4+nfb$ctx_size),
179 0177 2     ptr:          REF $BBLOCK,                      ! Pointer into return buffer
180 0178 2     cmd_desc:     $BBLOCK [8]                      ! Command string
181 0179 2                                     PRESET ([dsc$b_class] = dsc$k_class_d,
182 0180 2                                     [dsc$w_length] = 0,
183 0181 2                                     [dsc$a_pointer] = 0),
184 0182 2     ncb_desc:     VECTOR [2],                      ! Descriptor of NCB
185 0183 2     ascii_ncb_desc: VECTOR [2],                  ! Descriptor of ASCII portion of NCB
186 0184 2     filespec:     VECTOR [2],                      ! Descriptor of procedure filespec
187 0185 2     prcnam:       VECTOR [2],                      ! Descriptor of process name
188 0186 2     ipid,         ! Our IPID
189 0187 2     epid,         ! Our EPID
190 0188 2     item_list:    $BBLOCK [10*4]
191 0189 2                                     PRESET ([0,0,16,0] = 4,
192 0190 2                                     [2,0,16,0] = ipi$_pid,
193 0191 2                                     [8,0,32,0] = 0,
194 0192 2                                     [12,0,32,0] = 0),
195 0193 2     status:
196 0194 2
197 0195 2 BIND
198 0196 2     default_time = %ASCII '0 00:05:00': $BBLOCK;
199 0197 2
200 0198 2
201 0199 2     Initialize some stack local variables with dynamic pointers
202 0200 2
```

```
203 0201 2
204 0202 2 nfb_desc [1] = nfb;
205 0203 2 time_desc [1] = time_buf;
206 0204 2 buffer_desc [1] = buffer;
207 0205 2 key_desc [1] = keys;
208 0206 2 item_list [4,0,32,0] = epid;
209 0207 2
210 0208 2
211 0209 2 : Get our own EPID for later lookup of our server parameters
212 0210 2
213 0211 2
214 P 0212 2 signal_if_error(
215 0213 2     $GETJPI(ITMLST = item_list));      ! Get our EPID
216 0214 2
217 0215 2
218 0216 2 : Assign a channel to the network ACP
219 0217 2
220 0218 2
221 P 0219 2 signal_if_error(
222 P 0220 2     LIB$ASN_WTH_MBX(XASCII '_NET:',      ! Assign channel to NETACP
223 P 0221 2     0,0,                                ! mailbox MAXMSG,BUFQUO
224 P 0222 2     net_channel,                    ! Channel to NETACP
225 0223 2     mbx_channel));                    ! Channel to mailbox
226 0224 2
227 0225 2
228 0226 2 : Issue a read on the associated mailbox, so that we can receive
229 0227 2 : notification of network broadcast messages. This is done so that
230 0228 2 : we can detect the network shutting down.
231 0229 2
232 0230 2
233 0231 2 issue_mailbox_read();                ! Issue mailbox read
234 0232 2
235 0233 2
236 0234 2 : Set our process name to something which indicates that we are a network
237 0235 2 : server waiting for work. This has the effect of wiping out the previous
238 0236 2 : process name set by the previous connect to this process.
239 0237 2
240 0238 2
241 0239 2 prcnam [0] = .buffer_desc [0];          ! Make descriptor of scratch buffer
242 0240 2 prcnam [1] = .buffer_desc [1];
243 0241 2
244 P 0242 2 $FAD(XASCII 'SERVER!XW',            ! Generate a unique process name
245 P 0243 2     prcnam,                            ! Output buffer descriptor
246 P 0244 2     prcnam [0],                      ! Place to return length
247 0245 2     .epid);                          ! Use last 4 digits of EPID
248 0246 2
249 0247 2 $SETPRN(PCNAM = prcnam);                ! Set our process name
250 0248 2 : (ignore any errors)
251 0249 2
252 0250 2
253 0251 2 : Schedule a timer, so that if the following QIO does not complete within
254 0252 2 : a reasonable amount of time, we can go away (since there was no work to do).
255 0253 2
256 0254 2
257 P 0255 2 status = $TRNLOG(LOGNAM = XASCII 'NETSERVER$TIMEOUT', ! Get timeout value
258 P 0256 2     RSLBUF = time_desc,
259 0257 2     RSLLEN = time_desc [0]);
```



```

260 0258 2
261 0259 IF .status NEQ ss$_normal ! If not explicitly specified,
262 0260 THEN
263 0261 BEGIN
264 0262     time_desc [0] = .default_time [dsc$_length];
265 0263     time_desc [1] = .default_time [dsc$_pointer];
266 0264 END;
267 0265
268 P 0266 signal if_error(
269 P 0267     $BINTIM(TIMBUF = time_desc, ! Translate time specifier to binary
270 0268     TIMADR = delta_time));
271 0269
272 P 0270 signal if_error(
273 P 0271     $SETIMR(DAYTIM = delta_time, ! Start timer
274 0272     ASTADR = timeout_ast)); ! Address of AST routine
275 0273
276 0274
277 0275 ! Tell NETACP that we are available for a connect request. The QIOW
278 0276 ! will complete when a connect has been assigned to us.
279 0277
280 0278
281 0279 CH$FILL(0,nfb$_length,nfb); ! Pre-zero NFB fields
282 0280 nfb [nfb$_fct] = nfb$_declserv; ! Tell NETACP we are available for work
283 0281
284 P 0282 status = $QIOW(FUNC = IOS$_ACPCONTROL, ! Issue control function
285 P 0283     CHAN = .net_channel,
286 P 0284     IOSB = iosb,
287 0285     P1 = nfb_desc); ! Address of NFB descriptor
288 0286
289 0287 IF NOT .status ! If error detected,
290 0288 OR NOT (status = .iosb [0,0,16,0])
291 0289 THEN
292 0290 IF .status EQL ss$_abort ! If we timed out,
293 0291 THEN
294 0292 BEGIN
295 0293     $DASSGN(CHAN = .net_channel); ! Deassign the ACP channel
296 0294     RETURN sts$_severe OR sts$_inhib_msg; ! Return "fatal" from program
297 0295 END
298 0296 ELSE
299 0297 BEGIN
300 0298     SIGNAL(.status); ! else signal the error
301 0299     $DASSGN(CHAN = .net_channel); ! Deassign the ACP channel
302 0300     RETURN true;
303 0301 END;
304 0302
305 0303 ipid = .iosb [4,0,32,0]; ! Get our IPID returned by DECLSERV
306 0304
307 0305 CH$FILL(0,nfb$_length,nfb); ! Pre-zero NFB fields
308 0306
309 0307 nfb [nfb$_fct] = nfb$_fc_show; ! Request "show" function
310 0308 nfb [nfb$_database] = nfb$_db_spi; ! of server process database
311 0309 nfb [nfb$_srch_key] = nfb$_spi_pid; ! for our process
312 0310 nfb [nfb$_oper] = nfb$_op_eq; ! by checking if field EQL P2 value
313 0311
314 0312 CH$MOVE(4*4, UPLIT LONG( ! Request the following fields:
315 0313     nfb$_spi_ncb, ! Network connect block
316 0314     nfb$_spi_sfi, ! Procedure filespec

```

```

317      0315      2      nfb$spi_pnm,      ! Process name
318      0316      nfb$endoflist),
319      0317      nfb [nfb$_fldid]);
320      0318
321      0319      keys [0,0,32,0] = 0;      ! Zero count of fields in P4 (unused)
322      0320      keys [4,0,32,0] = .ipid;      ! Search value = our IPID
323      0321      keys [8,0,16,0] = 0;      ! Context area = at beginning
324      0322
325      P 0323      status = $QIOW(FUNC = IOS$ACPCONTROL,      ! Issue control function
326      0324      CHAN = .net_channel,
327      0325      IOSB = iosb,
328      0326      P1 = nfb_desc,      ! Address of NDB descriptor
329      0327      P2 = key_desc,      ! Address of key buffer descriptor
330      0328      P4 = buffer_desc);      ! Address of return buffer descriptor
331      0329
332      0330      IF NOT .status      ! If error detected,
333      0331      OR NOT (status = .iosb [0,0,16,0])
334      0332      THEN
335      0333      BEGIN
336      0334      SIGNAL(.status);      ! then stop looping
337      0335      $DASSGN(CHAN = .net_channel);      ! Deassign the ACP channel
338      0336      RETURN true;
339      0337      END;
340      0338
341      0339      ptr = buffer [0];      ! Point to first string in buffer
342      0340
343      0341      ncb_desc [0] = .ptr [0,0,16,0];      ! Construct descriptor of NCB
344      0342      ncb_desc [1] = .ptr + 2;
345      0343      ptr = .ptr + 2 + .ptr [0,0,16,0];      ! Skip by string in buffer
346      0344
347      0345      filespec [0] = .ptr [0,0,16,0];      ! Construct descriptor of procedure
348      0346      filespec [1] = .ptr + 2;
349      0347      ptr = .ptr + 2 + .ptr [0,0,16,0];      ! Skip by string in buffer
350      0348
351      0349      prcnam [0] = .ptr [0,0,16,0];      ! Construct descriptor of process name
352      0350      prcnam [1] = .ptr + 2;
353      0351      ptr = .ptr + 2 + .ptr [0,0,16,0];      ! Skip by string in buffer
354      0352
355      0353      ptr = CH$FIND_CH(.ncb_desc [0], .ncb_desc [1], '/');
356      0354
357      0355      ascii_ncb_desc [0] = .ptr - .ncb_desc [1];
358      0356      ascii_ncb_desc [1] = .ncb_desc [1];
359      0357
360      0358      write_line('');
361      0359      write_line('-----');
362      0360      write_line('');
363      0361      write_line('Connect request received at !XD', 0);
364      0362      write_line('from remote process !AS', ascii_ncb_desc);
365      0363      write_line('for object !AS', filespec);
366      0364      write_line('');
367      0365      write_line('-----');
368      0366      write_line('');
369      0367
370      P 0368      signal_if_error(
371      0369      $SETPRN(PRCNAM = prcnam));      ! Set our process name
372      0370
373      P 0371      signal_if_error(

```



```

374 P 0372 2 LIB$SET_LOGICAL(%ASCID 'SYS$NET', ! Define SYS$NET to NCB
375 0373 ncb_desc));
376 0374
377 0375 cmd_desc [dsc$b_class] = dsc$b_class_d; ! Create dynamic string descriptor
378 0376 cmd_desc [dsc$a_pointer] = 0; ! Indicate no dynamic string yet
379 P 0377 signal if error
380 P 0378 STR$CONCAT(cmd_desc, ! Create '@filespec' command
381 0379 %ASCID '@',filespec));
382 0380
383 0381 IF NOT CH$FAIL(CH$FIND_SUB( ! If .EXE found in filespec,
384 0382 filespec [0],.filespec [1],
385 0383 4, UPLIT BYTE('.EXE'))
386 0384 THEN
387 P 0385 signal if error(
388 0386 LIB$RUN_PROGRAM(filespec)) ! Chain to program (EXIT AND CHAIN)
389 0387 ELSE
390 P 0388 signal if error(
391 0389 LIB$DO_COMMAND(cmd_desc)); ! Else, chain to command line
392 0390
393 0391
394 0392 Do not put any code after this point. Both LIB$RUN_PROGRAM and
395 0393 LIB$DO_COMMAND do not return, then cause immediately program exit.
396 0394 The only way we get here is if they fail.
397 0395
398 0396
399 0397 RETURN true; ! Return successfully
400 0398
401 0399 1 END;

```

INFO#250 L1:0245  
Referenced LOCAL symbol EPID is probably not initialized

															.TITLE NETWORK_SERVER								
															.IDENT \V04-000\								
															.PSECT \$SPLITS,NOWRT,NOEXE,2								
															.WORD 4,793								
															.BYTE 0[4]								
															.LONG 0,0								
00	00	30	30	3A	35	30	3A	30	30	20	30	00010	P.AAC:	.ASCII \0 00:05:00\<0><0>									
												010E000A	0001C	P.AAB:	.LONG 17694730								
												00000000	00020		.ADDRESS P.AAC								
												00	00	00	3A	54	45	4E	5F	00024	P.AAE:	.ASCII \ NET:\<0><0><0>	
												010E0005	0002C	P.AAD:	.LONG 17694725								
												00000000	00030		.ADDRESS P.AAE								
00	00	57	58	21	5F	52	45	56	52	45	53	00034	P.AAG:	.ASCII \SERVER !XW\<0><0>									
												010E000A	00040	P.AAF:	.LONG 17694730								
												00000000	00044		.ADDRESS P.AAG								
4F	45	4D	49	54	24	52	45	56	52	45	53	00048	P.AAI:	.ASCII \NETSERVER\$TIMEOUT\<0><0><0>									
												00	00	00	54	55	00057						
												010E0011	0005C	P.AAH:	.LONG 17694737								
												00000000	00060		.ADDRESS P.AAI								
												00000000	12020045	12020043	12020044	00064	P.AAJ:	.LONG 302121028, 302121027, 302121029, 0					
												010E0000	00074	P.AAL:	.BLKB 0								
												00000000	00074	P.AAK:	.LONG 17694720								
													00078		.ADDRESS P.AAL								



```

2D 2D 2D 2D 2D 2D 2D 2D 2D 2D 2D 2D 2D 2D 2D 0007C P.AAN: .ASCII \
2D 2D 2D 2D 2D 2D 2D 2D 2D 2D 2D 2D 2D 2D 2D 0008B
2D 2D 2D 2D 2D 2D 2D 2D 2D 2D 2D 2D 2D 2D 2D 0009A
2D 2D 2D 2D 2D 2D 2D 2D 2D 2D 2D 2D 2D 2D 2D 000A4 .ASCII \
2D 2D 2D 2D 2D 2D 2D 2D 2D 2D 2D 2D 2D 2D 2D 000B3
010E0040 000BC P.AAM: .LONG 17694784
00000000 000C0 .ADDRESS P.AAN
000C4 P.AAP: .BLKB 0
010E0030 000C4 P.AAO: .LONG 17694720
00000000 000C8 .ADDRESS P.AAP
74 63 65 6E 6E 6F 43 20 20 20 20 20 20 20 20 000CC P.AAR: .ASCII \ Connect request received at !XD-
76 69 65 63 65 72 20 74 73 65 75 71 65 72 20 000DB \<0>
00 44 25 21 20 74 61 20 64 65 000EA
010E0027 000F4 P.AAQ: .LONG 17694759
00000000 000FB .ADDRESS P.AAR
6F 72 66 20 20 20 20 20 20 20 20 20 20 20 20 000FC P.AAT: .ASCII \ from remote process !AS'\
73 65 63 6F 72 70 20 65 74 6F 6D 65 72 20 6D 0010B
22 53 41 21 20 73 0011A
010E0024 00120 P.AAS: .LONG 17694756
00000000 00124 .ADDRESS P.AAT
72 6F 66 20 20 20 20 20 20 20 20 20 20 20 20 00128 P.AAV: .ASCII \ for object '!AS'\
22 53 41 21 22 20 74 63 65 6A 62 6F 20 00137
010E001C 00144 P.AAU: .LONG 17694748
00000000 00148 .ADDRESS P.AAV
010E0000 0014C P.AAX: .BLKB 0
00000000 0014C P.AAW: .LONG 17694720
00000000 00150 .ADDRESS P.AAX
2D 2D 2D 2D 2D 2D 2D 2D 2D 2D 2D 2D 2D 2D 2D 00154 P.AAZ: .ASCII \
2D 2D 2D 2D 2D 2D 2D 2D 2D 2D 2D 2D 2D 2D 2D 00163
2D 2D 2D 2D 2D 2D 2D 2D 2D 2D 2D 2D 2D 2D 2D 00172
2D 2D 2D 2D 2D 2D 2D 2D 2D 2D 2D 2D 2D 2D 2D 0017C .ASCII \
2D 2D 2D 2D 2D 2D 2D 2D 2D 2D 2D 2D 2D 2D 2D 0018B
010E0040 00194 P.AAY: .LONG 17694784
00000000 00198 .ADDRESS P.AAZ
0019C P.ABB: .BLKB 0
010E0000 0019C P.ABA: .LONG 17694720
00000000 001A0 .ADDRESS P.ABB
00 54 45 4E 24 53 59 53 001A4 P.ABD: .ASCII \SYSSNET\<0>
010E0007 001AC P.ABC: .LONG 17694727
00000000 001B0 .ADDRESS P.ABD
00 00 00 40 001B4 P.ABF: .ASCII \<0><0><0>
010E0001 001B8 P.ABE: .LONG 17694721
00000000 001BC .ADDRESS P.ABF
45 58 45 2E 001C0 P.ABG: .ASCII \.EXE\

```

.PSECT \$OWNS,NOEXE,2

```

00000 NET_CHANNEL:
      .BLKB 2
00002 MBX_CHANNEL:
      .BLKB 2
00004 MBX_MESSAGE:
      .BLKB 128
00084 MBX_IOSB:
      .BLKB 8

```

DEFAULT\_TIME= P.AAB

.EXTRN LIB\$ASN\_WTH\_MBX  
.EXTRN LIB\$SET-LOGICAL  
.EXTRN LIB\$RUN-PROGRAM  
.EXTRN LIB\$DO\_COMMAND, LIB\$PUT\_OUTPUT  
.EXTRN STR\$CONCAT, SYSS\$GETJPI  
.EXTRN SYSS\$FAO, SYSS\$SETPRN  
.EXTRN SYSS\$TRNLOG, SYSS\$BINTIM  
.EXTRN SYSS\$SETIMR, SYSS\$QIOW  
.EXTRN SYSS\$DASSGN

.PSECT \$CODE\$,NOWRT,2

OFFC 00000 NETWORK\_SERVER:

	5B	0000'	CF	9E	00002	.WORD	Save R2,R3,R4,R5,R6,R7,R8,R9,R10,R11	0144
	5A	0000V	CF	9E	00007	MOVAB	NET_CHANNEL, R11	
	59	00000000G	00	9E	0000C	MOVAB	FAO_BUFFER, R10	
	58	0000'	CF	9E	00013	MOVAB	LIB\$PUT_OUTPUT, R9	
	5E	FD54	CE	9E	00018	MOVAB	P.AAA, R8	
98	AD		1C	7D	0001D	MOVQ	-684(SP), SP	0159
FF08	CD	80	8F	9A	00021	MOVZBL	#28, NFB_DESC	
		FF0C	CD	D4	00027	CLRL	#128, TIME_DESC	
00A4	CE	0100	8F	3C	0002B	MOVZWL	TIME_DESC+4	
		00A8	CE	D4	00032	CLRL	#256, BUFFER_DESC	
54	AE	48	8F	9A	00036	MOVZBL	BUFFER_DESC+4	
		58	AE	D4	0003B	CLRL	#72, KEY_DESC	
4C	AE	02000000	8F	D0	0003E	MOVL	KEY_DESC+4	0181
		50	AE	D4	00046	CLRL	#33554432, CMD_DESC	
28	00	68	10	2C	00049	MOVCS	CMD_DESC+4	0192
		04	AE		0004E		#16, P.AAA, #0, #40, ITEM_LIST	
9C	AD	A0	AD	9E	00050	MOVAB	NFB, NFB_DESC+4	0202
FF0C	CD	FF10	CD	9E	00055	MOVAB	TIME_BUF, TIME_DESC+4	0203
00A8	CE	00AC	CE	9E	0005C	MOVAB	BUFFER, BUFFER_DESC+4	0204
58	AE	5C	AE	9E	00063	MOVAB	KEYS, KEY_DESC+4	0205
08	AE		6E	9E	00068	MOVAB	EPID, ITEM_LIST+4	0206
			7E	7C	0006C	CLRQ	-(SP)	0213
			7E	D4	0006E	CLRL	-(SP)	
		10	AE	9F	00070	PUSHAB	ITEM_LIST	
			7E	7C	00073	CLRQ	-(SP)	
			7E	D4	00075	CLRL	-(SP)	
00000000G	00		07	FB	00077	CALLS	#7, SYSS\$GETJPI	
	52		50	D0	0007E	MOVL	R0, STATUS	
	7A		52	E9	00081	BLBC	STATUS, 2\$	
		02	AB	9F	00084	PUSHAB	MBX_CHANNEL	0223
			5B	DD	00087	PUSHL	R11	
			7E	7C	00089	CLRQ	-(SP)	
		2C	A8	9F	0008B	PUSHAB	P.AAD	
00000000G	00		05	FB	0008E	CALLS	#5, LIB\$ASN_WTH_MBX	
	52		50	D0	00095	MOVL	R0, STATUS	
	7C		52	E9	00098	BLBC	STATUS, 3\$	
0000V	CF		00	FB	0009B	CALLS	#0, ISSUE_MAILBOX_READ	0231
2C	AE	00A4	CE	7D	000A0	MOVQ	BUFFER_DESC, PRCNAM	0239
			6E	DD	000A6	PUSHL	EPID	0245
		30	AE	9F	000AB	PUSHAB	PRCNAM	
		34	AE	9F	000AB	PUSHAB	PRCNAM	
		40	A8	9F	000AE	PUSHAB	P.AAF	
00000000G	00		04	FB	000B1	CALLS	#4, SYSS\$FAO	

	00000000G	00	2C	AE 9F 000B8	PUSHAB	PRCNAM	0247
				01 FB 000B8	CALLS	#1, SYS\$SETPRN	
				7E 7C 000C2	CLRQ	-(SP)	0257
				7E D4 000C4	CLRL	-(SP)	
			FF08	CD 9F 000C6	PUSHAB	TIME_DESC	
			FF08	CD 9F 000CA	PUSHAB	TIME_DESC	
			5C	A8 9F 000CE	PUSHAB	P.AAJ	
	00000000G	00		06 FB 000D1	CALLS	#6, SYS\$STRNLOG	
		56		50 D0 000D8	MOVL	R0, STATUS	
		01		56 D1 000DB	CMPL	STATUS, #1	0259
				0C 13 000DE	BEQL	1\$	
	FF08	CD	1C	A8 3C 000E0	MOVZWL	DEFAULT_TIME, TIME_DESC	0262
	FF0C	CD	20	A8 D0 000E6	MOVL	DEFAULT_TIME+4, TIME_DESC+4	0263
			FF00	CD 9F 000EC	PUSHAB	DELTA_TIME	0268
			FF08	CD 9F 000F0	PUSHAB	TIME_DESC	
	00000000G	00		02 FB 000F4	CALLS	#2, SYS\$BINTIM	
		52		50 D0 000FB	MOVL	R0, STATUS	
		16		52 E9 000FE	BLBC	STATUS, 3\$	
				7E D4 00101	CLRL	-(SP)	0272
			0000V	CF 9F 00103	PUSHAB	TIMEOUT_AST	
			FF00	CD 9F 00107	PUSHAB	DELTA_TIME	
				7E D4 0010B	CLRL	-(SP)	
	00000000G	00		04 FB 0010D	CALLS	#4, SYS\$SETIMR	
		52		50 D0 00114	MOVL	R0, STATUS	
		03		52 E8 00117	BLBS	STATUS, 4\$	
			01EE	31 0011A	BRW	13\$	
10	00	6E		00 2C 0011D	MOVCS	#0, (SP), #0, #16, NFB	0279
			A0	AD 00122			
	A0	AD		17 90 00124	MOVB	#23, NFB	0280
				7E 7C 00128	CLRQ	-(SP)	0285
				7E 7C 0012A	CLRQ	-(SP)	
				7E D4 0012C	CLRL	-(SP)	
			98	AD 9F 0012E	PUSHAB	NFB_DESC	
				7E 7C 00131	CLRQ	-(SP)	
			90	AD 9F 00133	PUSHAB	IOSB	
				38 D0 00136	PUSHL	#56	
		7E		6B 3C 00138	MOVZWL	NET_CHANNEL, -(SP)	
				7E D4 0013B	CLRL	-(SP)	
	00000000G	00		0C FB 0013D	CALLS	#12, SYS\$QIOW	
		56		50 D0 00144	MOVL	R0, STATUS	
		07		56 E9 00147	BLBC	STATUS, 5\$	0287
		56	90	AD 3C 0014A	MOVZWL	IOSB, STATUS	0288
		17		56 E8 0014E	BLBS	STATUS, 6\$	
		2C		56 D1 00151	CMPL	STATUS, #44	0290
				6E 12 00154	BNEQ	7\$	
		7E		6B 3C 00156	MOVZWL	NET_CHANNEL, -(SP)	0293
	00000000G	00		01 FB 00159	CALLS	#1, -SYS\$DASSGN	
		50	10000004	8F D0 00160	MOVL	#268435460, R0	0297
				04 00167	RET		
		57	94	AD D0 00168	MOVL	IOSB+4, IPID	0303
10	00	6E		00 2C 0016C	MOVCS	#0, (SP), #0, #16, NFB	0305
			A0	AD 00171			
				22 90 00173	MOVB	#34, NFB	0307
	A0	AD		12 90 00177	MOVB	#18, NFB+2	0308
	A2	AD		8F D0 0017B	MOVL	#302055440, NFB+4	0309
	A4	AD	12010010	AD 94 00183	CLRB	NFB+3	0310
			A3	10 28 00186	MOVCS	#16, P.AAJ, NFB+16	0317
B0	AD	64	A8				



		5C	AE	D4	0018C	CLRL	KEYS	0319	
60	AE	57	DO	0018F	MOVL	IPID, KEYS+4	0320		
		64	AE	B4	00193	CLRW	KEYS+8	0321	
		7E	7C	00196	CLRQ	-(SP)	0328		
		00AC	CE	9F	00198	PUSHAB	BUFFER_DESC		
		7E	D4	0019C	CLRL	-(SP)			
		64	AE	9F	0019E	PUSHAB	KEY_DESC		
		98	AD	9F	001A1	PUSHAB	NFB_DESC		
		7E	7C	001A4	CLRQ	-(SP)			
		90	AD	9F	001A6	PUSHAB	IOSB		
		38	DD	001A9	PUSHL	#56			
	7E	6B	3C	001AB	MOVZWL	NET_CHANNEL, -(SP)			
		7E	D4	001AE	CLRL	-(SP)			
00000000G	00	0C	FB	001B0	CALLS	#12, SYSSQIOW			
	56	50	DO	001B7	MOVL	RO, STATUS			
	07	56	E9	001BA	BLBC	STATUS, 7\$	0330		
	56	90	AD	3C	001BD	MOVZWL	IOSB, STATUS	0331	
	16	56	E8	001C1	BLBS	STATUS, 8\$			
		56	DD	001C4	PUSHL	STATUS	0334		
00000000G	00	01	FB	001C6	CALLS	#1, LIB\$SIGNAL			
	7E	6B	3C	001CD	MOVZWL	NET_CHANNEL, -(SP)	0335		
00000000G	00	01	FB	001D0	CALLS	#1, SYSSDASSGN			
		0143	31	001D7	BRW	14\$	0336		
	51	00AC	CE	9E	001DA	MOVAB	BUFFER, PTR	0339	
	50	61	3C	001DF	MOVZWL	(PTR), RO	0341		
44	AE	50	DO	001E2	MOVL	RO, NCB_DESC			
48	AE	02	A1	9E	001E6	MOVAB	2(R1), NCB_DESC+4	0342	
	51	02	A041	9E	001EB	MOVAB	2(RO)(PTR), PTR	0343	
	50	61	3C	001F0	MOVZWL	(PTR), RO	0345		
34	AE	50	DO	001F3	MOVL	RO, FILESPEC			
38	AE	02	A1	9E	001F7	MOVAB	2(R1), FILESPEC+4	0346	
	51	02	A041	9E	001FC	MOVAB	2(RO)(PTR), PTR	0347	
	50	61	3C	00201	MOVZWL	(PTR), RO	0349		
2C	AE	50	DO	00204	MOVL	RO, PRCNAM			
30	AE	02	A1	9E	00208	MOVAB	2(R1), PRCNAM+4	0350	
	51	02	A041	9E	0020D	MOVAB	2(RO)(PTR), PTR	0351	
48	BE	44	AE	2F	3A	00212	LOCC	#47, NCB_DESC, @NCB_DESC+4	0353
		02	12	00218	BNEQ	9\$			
		51	D4	0021A	CLRL	R1			
3C	AE	48	AE	C3	0021C	SUBL3	NCB_DESC+4, PTR, ASCII_NCB_DESC	0355	
		48	AE	DO	00222	MOVL	NCB_DESC+4, ASCII_NCB_DESC+4	0356	
		74	A8	9F	00227	PUSHAB	P.AAK	0358	
		6A	01	FB	0022A	CALLS	#1, FAO_BUFFER		
		69	50	DD	0022D	PUSHL	RO		
		69	01	FB	0022F	CALLS	#1, LIB\$PUT_OUTPUT		
		00BC	C8	9F	00232	PUSHAB	P.AAM	0359	
		6A	01	FB	00236	CALLS	#1, FAO_BUFFER		
		69	50	DD	00239	PUSHL	RO		
		00C4	01	FB	0023B	CALLS	#1, LIB\$PUT_OUTPUT		
		6A	C8	9F	0023E	PUSHAB	P.AAO	0360	
		69	01	FB	00242	CALLS	#1, FAO_BUFFER		
		69	50	DD	00245	PUSHL	RO		
		00F4	01	FB	00247	CALLS	#1, LIB\$PUT_OUTPUT		
		6A	7E	D4	0024A	CLRL	-(SP)	0361	
		02	C8	9F	0024C	PUSHAB	P.AAQ		
		50	FB	00250	CALLS	#2, FAO_BUFFER			
		50	DD	00253	PUSHL	RO			

69		01	FB	00255	CALLS	#1, LIB\$PUT_OUTPUT	
	3C	AE	9F	00258	PUSHAB	ASCII_NCB_DESC	0362
	0120	C8	9F	0025B	PUSHAB	P.AAS	
6A		02	FB	0025F	CALLS	#2, FAO_BUFFER	
		50	DD	00262	PUSHL	R0	
69		01	FB	00264	CALLS	#1, LIB\$PUT_OUTPUT	
	34	AE	9F	00267	PUSHAB	FILESPEC	0363
	0144	C8	9F	0026A	PUSHAB	P.AAU	
6A		02	FB	0026E	CALLS	#2, FAO_BUFFER	
		50	DD	00271	PUSHL	R0	
69		01	FB	00273	CALLS	#1, LIB\$PUT_OUTPUT	
	014C	C8	9F	00276	PUSHAB	P.AAW	0364
6A		01	FB	0027A	CALLS	#1, FAO_BUFFER	
		50	DD	0027D	PUSHL	R0	
69		01	FB	0027F	CALLS	#1, LIB\$PUT_OUTPUT	
	0194	C8	9F	00282	PUSHAB	P.AAY	0365
6A		01	FB	00286	CALLS	#1, FAO_BUFFER	
		50	DD	00289	PUSHL	R0	
69		01	FB	0028B	CALLS	#1, LIB\$PUT_OUTPUT	
	019C	C8	9F	0028E	PUSHAB	P.ABA	0366
6A		01	FB	00292	CALLS	#1, FAO_BUFFER	
		50	DD	00295	PUSHL	R0	
69		01	FB	00297	CALLS	#1, LIB\$PUT_OUTPUT	
	2C	AE	9F	0029A	PUSHAB	PRCNAM	0369
00000000G	00	01	FB	0029D	CALLS	#1, SYS\$SETPRN	
	52	50	DD	002A4	MOVL	R0, STATUS	
	51	52	E9	002A7	BLBC	STATUS, 13\$	
		AE	9F	002AA	PUSHAB	NCB_DESC	0373
	44	C8	9F	002AD	PUSHAB	P.ABC	
00000000G	00	02	FB	002B1	CALLS	#2, LIB\$SET_LOGICAL	
	52	50	DD	002B8	MOVL	R0, STATUS	
	4D	52	E9	002BB	BLBC	STATUS, 13\$	
4F	AE	02	90	002BE	MOVB	#2, CMD_DESC+3	0375
		AE	D4	002C2	CLRL	CMD_DESC+4	0376
	34	AE	9F	002C5	PUSHAB	FILESPEC	0379
	01B8	C8	9F	002C8	PUSHAB	P.ABE	
	54	AE	9F	002CC	PUSHAB	CMD_DESC	
00000000G	00	03	FB	002CF	CALLS	#3, STR\$CONCAT	
	52	50	DD	002D6	MOVL	R0, STATUS	
	2F	52	E9	002D9	BLBC	STATUS, 13\$	
38	BE	34	AE	01C0	C8	04, P.ABG, FILESPEC, @FILESPEC+4	0383
					BEQL	10\$	
					MOVL	#4, R3	
					SUBL2	#4, R3	
					BEQL	11\$	
					PUSHAB	FILESPEC	0386
00000000G	00	01	FB	002F2	CALLS	#1, LIB\$RUN_PROGRAM	
		0A	11	002F9	BRB	12\$	
		AE	9F	002FB	PUSHAB	CMD_DESC	0389
00000000G	00	01	FB	002FE	CALLS	#1, LIB\$DO_COMMAND	
	52	50	DD	00305	MOVL	R0, STATUS	
	12	52	E8	00308	BLBS	STATUS, 14\$	
		52	DD	0030B	PUSHL	STATUS	
00000000G	00	01	FB	0030D	CALLS	#1, LIB\$SIGNAL	
50		8F	C9	00314	BISL3	#268435456, STATUS, R0	
			04	0031C	RET		
		01	DD	0031D	MOVL	#1, R0	0397





```

403 0400 1 ROUTINE timeout_ast: NOVALUE =
404 0401 1
405 0402 1 --
406 0403 1
407 0404 1 This AST is called when our timer has expired. Since the
408 0405 1 DECLSERV QIO has not completed in the required amount of time,
409 0406 1 we assume that there are no more requests to be handled by this
410 0407 1 process, and we go away. This is done by cancelling the DECLSERV
411 0408 1 QIO.
412 0409 1
413 0410 1 Inputs:
414 0411 1
415 0412 1 net_channel = Network channel which has DECLSERV pending.
416 0413 1
417 0414 1 Outputs:
418 0415 1
419 0416 1 None
420 0417 1 ---
421 0418 1
422 0419 2 BEGIN
423 0420 2
424 0421 2 $CANCEL(CHAN = .net_channel); ! Cancel the DECLSERV QIO
425 0422 2
426 0423 1 END;

```

.EXTRN SYS\$CANCEL

				0000 00000	TIMEOUT_AST:		
					.WORD	Save nothing	: 0400
					MOVZWL	NET_CHANNEL, -(SP)	: 0421
					CALLS	#1, SYS\$CANCEL	: 0423
					RET		

; Routine Size: 15 bytes, Routine Base: \$CODE\$ + 0321

```

428 0424 1 ROUTINE issue_mailbox_read: NOVALUE =
429 0425 1
430 0426 1 ---
431 0427 1
432 0428 1 Issue an asynchronous QIO on the associated mailbox
433 0429 1 for the network channel waiting for broadcast messages.
434 0430 1
435 0431 1 Inputs:
436 0432 1
437 0433 1 mbx_channel = Channel number for mailbox
438 0434 1
439 0435 1 Outputs:
440 0436 1
441 0437 1 None
442 0438 1 ---
443 0439 1
444 0440 2 BEGIN
445 0441 2
446 0442 2 LOCAL
447 0443 2 status;
448 0444 2
449 P 0445 2 signal if error(
450 P 0446 2 $QIO(FUNC = IOS_READVBLK, ! Issue read on mailbox
451 P 0447 2 CHAN = .mbx_channel,
452 P 0448 2 EFN = 1,
453 P 0449 2 IOSB = mbx_iosb,
454 P 0450 2 ASTADR = net_interrupt,
455 P 0451 2 P1 = mbx_message,
456 0452 2 P2 = mbx_maxmsg);
457 0453 2
458 0454 1 END;

```

```

                                .EXTRN SYS$QIO
                                0004 00000 ISSUE_MAILBOX_READ:
                                .WORD Save R2
                                7E 7C 00002 CLRQ -(SP)
                                7E 7C 00004 CLRQ -(SP)
                                7E 80 00006 MOVZBL #128, -(SP)
                                0000' CF 9F 0000A PUSHAB MBX_MESSAGE
                                0000V 7E D4 0000E CLRL -(SP)
                                0000' CF 9F 00010 PUSHAB NET_INTERRUPT
                                0000' CF 9F 00014 PUSHAB MBX_IOSB
                                7E 0000' 31 DD 00018 PUSHL #49
                                00000000G 00 CF 3C 0001A MOVZWL MBX_CHANNEL, -(SP)
                                52 01 DD 0001F PUSHL #1
                                09 0C FB 00021 CALLS #12, SYS$QIO
                                00000000G 00 50 D0 00028 MOVL R0, STATUS
                                52 52 E2 0002B BLBS STATUS, 1$
                                52 DD 0002E PUSHL STATUS
                                01 FB 00030 CALLS #1, LIB$SIGNAL
                                04 00037 1$: RET

```

```

: 0424
: 0452
:
:
:
:
:
:
:
:
: 0454

```

; Routine Size: 56 bytes, Routine Base: \$CODE\$ + 0330

NETWORK\_SERVER  
V04-000

K 6  
16-Sep-1984 01:39:23  
14-Sep-1984 12:49:31

VAX-11 BLISS-32 V4.0-742  
[NETACP.SRC]SERVER.B32;1

Page 18  
(5)

[illegible]



```

460 0455 1 ROUTINE net_interrupt: NOVALUE =
461 0456 1
462 0457 1 ---
463 0458 1
464 0459 1 This AST routine is called when the outstanding QIO
465 0460 1 on the associated mailbox completes. If the interrupt
466 0461 1 indicates that the network is going down, then make us
467 0462 1 go away by canceling any I/O on the network channel
468 0463 1 (most likely a pending DECLSERV).
469 0464 1
470 0465 1 Inputs:
471 0466 1
472 0467 1     mbx_message = Mailbox message
473 0468 1     net_channel = Channel to network ACP
474 0469 1
475 0470 1 Outputs:
476 0471 1
477 0472 1     None
478 0473 1 ---
479 0474 1
480 0475 2 BEGIN
481 0476 2
482 0477 2 IF .mbx_message [0] EQL msg$_netshut ! If network shutting down,
483 0478 2 THEN
484 0479 2 BEGIN
485 0480 2     $DASSGN(CHAN = .net_channel); ! Cancel any pending DECLSERV I/O
486 0481 2     net_channel = 0; ! Mark channel no longer active
487 0482 2     RETURN; ! Do not re-issue mailbox read
488 0483 2 END;
489 0484 2
490 0485 2 issue_mailbox_read(); ! Issue another read on mailbox
491 0486 2
492 0487 1 END;

```

				0000 00000 NET_INTERRUPT:		
				.WORD	Save nothing	: 0455
	3B	0000'	CF 91 00002	CMPB	MBX_MESSAGE, #59	: 0477
			11 12 00007	BNEQ	1\$	
	7E	0000'	CF 3C 00009	MOVZWL	NET_CHANNEL, -(SP)	: 0480
00000000G	00		01 FB 0000E	CALLS	#1, SYSSDASSGN	
		0000'	CF B4 00015	CLRW	NET_CHANNEL	: 0481
			04 00019	RET		: 0479
AA AF		00	FB 0001A 1\$:	CALLS	#0, ISSUE_MAILBOX_READ	: 0485
			04 0001E	RET		: 0487

; Routine Size: 31 bytes, Routine Base: \$CODE\$ + 0368

```

: 494      0488 1 ROUTINE fao_buffer (ctrstr,args) =
: 495      0489 2 BEGIN
: 496      0490
: 497      0491  |---
: 498      0492  |
: 499      0493  |       This routine passes an ascii string through the FAO
: 500      0494  |       system service with any number of specified parameters.
: 501      0495  |
: 502      0496  |---
: 503      0497
: 504      0498  OWN
: 505      0499      desc :      VECTOR[2],      ! Result descriptor
: 506      0500      buf  :      VECTOR[512,BYTE]; ! Output buffer
: 507      0501
: 508      0502  MAP
: 509      0503      ctrstr :      REF VECTOR[2],
: 510      0504      args  :      VECTOR[4];
: 511      0505
: 512      0506      desc[0] = 512;      ! Set up result descriptor
: 513      0507      desc[1] = buf;
: 514      0508      $faol(ctrstr=.ctrstr,outlen=desc,outbuf=desc,prmlst=args);
: 515      0509      RETURN desc;
: 516      0510 1 END;

```

```

.PSECT $OWNS$,NOEXE,2
0008C DESC: .BLKB 8
00094 BUF: .BLKB 512
.EXTRN SYSS$FAOL
.PSECT $CODE$,NOWRT,2

```

				0004 00000	FAO_BUFFER:			
		52	0000'	CF	9E	00002	.WORD	Save R2
		62	0200	8F	3C	00007	MOVAB	DESC, R2
		A2	08	A2	9E	0000C	MOVZWL	#512, DESC
04			08	AC	9F	00011	MOVAB	BUF, DESC+4
			08	52	DD	00014	PUSHAB	ARGS
				52	DD	00016	PUSHL	R2
				52	DD	00018	PUSHL	R2
			04	AC	DD	0001B	PUSHL	CTRSTR
00000000G	00		04	FB	0001B		CALLS	#4, SYSS\$FAOL
	50		62	9E	00022		MOVAB	DESC, R0
			04	00025			RET	

; Routine Size: 38 bytes, Routine Base: \$CODE\$ + 0387

: 518 0511 1 END  
: 519 0512 0 ELUDOM

.EXTRN LIB\$SIGNAL

PSECT SUMMARY

Name	Bytes	Attributes
\$OWNS	660	NOVEC, WRT, RD, NOEXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2)
\$PLITS	452	NOVEC, NOWRT, RD, NOEXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2)
\$CODES	941	NOVEC, NOWRT, RD, EXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2)

Library Statistics

File	Total	Symbols Loaded	Percent	Pages Mapped	Processing Time
_\$255\$DUA28:[SYSLIB]STARLET.L32;1	9776	26	0	581	00:01.0
_\$255\$DUA28:[SHRLIB]NET.L32;1	1279	16	1	63	00:00.9

: Information: 1  
: Warnings: 0  
: Errors: 0

COMMAND QUALIFIERS

: BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/LIS=LIS\$:SERVER/OBJ=OBJ\$:SERVER MSRC\$:SERVER/UPDATE=(ENH\$:SERVER)

: Size: 941 code + 1112 data bytes  
: Run Time: 00:19.8  
: Elapsed Time: 00:38.3  
: Lines/CPU Min: 1554  
: Lexemes/CPU-Min: 22615  
: Memory Used: 252 pages  
: Compilation Complete



0279 AH-BT13A-SE  
VAX/VMS V4.0

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